

STN CA Caesar accession number : 1908

AN - 1993:220494 CAPLUS

DN - 118:220494

TI - Synthesis and vesicle formation of cationic surfactants based on trisubstituted perfluoroalkylated thiourea

IN - Trabelsi, H.; Szonyi, S.; Gaysinski, M.; Cambon, A.; Watzke, H. J.

CS - Lab. Chim. Org. Fluor, Univ. Nice-Sophia Antipolis, Nice, F-06108, Fr.

SO - Langmuir (1993), 9(5), 1201-5
CODEN: LANGD5; ISSN: 0743-7463

DT - Journal

LA - English

AB - New perfluoroalkyl double-chain surfactants were synthesized based on trisubstituted perfluoroalkylated thiourea. These amphiphiles have a modular structure consisting of hydrophobic tails, thiourea as connector, alkyl spacer, and ammonium head group. The modular organization allows an independent variation of the key features in the amphiphilic structure. The synthesis strategy was based on the condensation reaction of 2-(F-alkyl)ethyl isothiocyanates with 3-(dimethylamino)-N-(2-hydroxy-2-F-alkyl)ethyl-alkylamines and subsequent quaternization by methyl iodide to produce the trisubstituted perfluoroalkylated thiourea. The two reaction steps proceed with high yields. The surface activity properties of the new amphiphiles were studied and the ability to self-assemble into bilayer vesicles was detd. by freeze fracture electron microscopy and quasi-elastic light scattering.

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IT - 146993-89-7P 146993-90-0P 146993-91-1P
146993-92-2P 146993-93-3P 146993-94-4P
146993-95-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP
(Preparation)

(prepn. and surface tension of, for vesicle formation)

RN - 146993-89-7 CAPLUS

CN - Ethanaminium, N,N,N-trimethyl-2-[[[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)amino]thioxomethyl](3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-hydroxyoctyl)amino]-, iodide (9CI) (CA INDEX NAME)

[..00000049]

RN 146993-90-0 CAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[[[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)amino]thioxomethyl](3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-hydroxyoctyl)amino]-, iodide (9CI) (CA INDEX NAME)

[..00000050]

RN 146993-91-1 CAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[thioxo[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)amino]methyl](3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-hydroxyoctyl)amino]-, iodide (9CI) (CA INDEX NAME)

[..00000051]

146993-92-2 CAPLUS
CN 1-Propanaminium, N,N,N-trimethyl-3-[[thioxo[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)amino]methyl](3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-hydroxyoctyl)amino]-, iodide (9CI) (CA INDEX NAME)

[--00000052]

RN 146993-93-3 CAPLUS
CN Ethanaminium, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-hydroxydecyl)[[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)amino]thioxomethyl]amino]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)

[--00000053]

RN 146993-94-4 CAPLUS
CN 1-Propanaminium, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-hydroxydecyl)[[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)amino]thioxomethyl]amino]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)

[--00000054]

RN 146993-95-5 CAPLUS
CN Ethanaminium, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-hydroxydecyl)[thioxo[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)amino]methyl]amino]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)

[--00000055]

IT ***146993-88-6P***
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as cation surfactant)
RN 146993-88-6 CAPLUS
CN 1-Propanaminium, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-hydroxydecyl)[thioxo[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)amino]methyl]amino]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)

[--00000056]

IT ***147011-97-0P*** ***147011-98-1P*** ***147011-99-2P***
147012-00-8P ***147012-01-9P*** ***147012-02-0P***
147012-03-1P ***147012-04-2P***
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, for vesicle formation)
RN 147011-97-0 CAPLUS
CN Thiourea, N-[3-(dimethylamino)propyl]-N'-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-hydroxydecyl)-N'-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (9CI) (CA INDEX NAME)

[--00000057]

RN 147011-98-1 CAPLUS
CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(3,3,4,4,5,5,6,6,6-nonafluorohexyl)-N-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-hydroxyoctyl)- (9CI) (CA INDEX NAME)

[--00000058]

RN 147011-99-2 CAPLUS
CN Thiourea, N-[3-(dimethylamino)propyl]-N'-(3,3,4,4,5,5,6,6,6-nonafluorohexyl)-N-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-

[--00000059]

RN 147012-00-8 CAPLUS
CN Thiourea, N-[2-(dimethylamino)ethyl]-N-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-hydroxyoctyl)-N'-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (9CI) (CA INDEX NAME)

[--00000060]

RN 147012-01-9 CAPLUS
CN Thiourea, N-[3-(dimethylamino)propyl]-N-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-hydroxyoctyl)-N'-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (9CI) (CA INDEX NAME)

[--00000061]

RN 147012-02-0 CAPLUS
CN Thiourea, N-[2-(dimethylamino)ethyl]-N-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-hydroxydecyl)-N'-(3,3,4,4,5,5,6,6,6-nonafluorohexyl)- (9CI) (CA INDEX NAME)

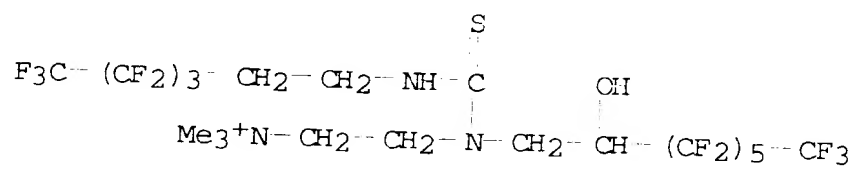
[--00000062]

RN 147012-03-1 CAPLUS
CN Thiourea, N-[3-(dimethylamino)propyl]-N-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-hydroxydecyl)-N'-(3,3,4,4,5,5,6,6,6-nonafluorohexyl)- (9CI) (CA INDEX NAME)

[--00000063]

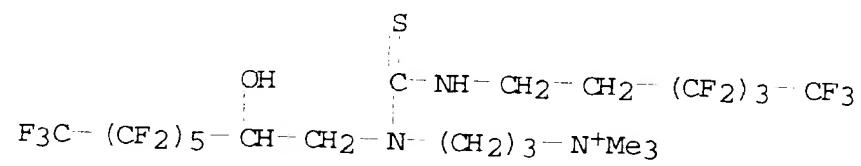
RN 147012-04-2 CAPLUS
CN Thiourea, N-[2-(dimethylamino)ethyl]-N-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-2-hydroxydecyl)-N'-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (9CI) (CA INDEX NAME)

[--00000064]



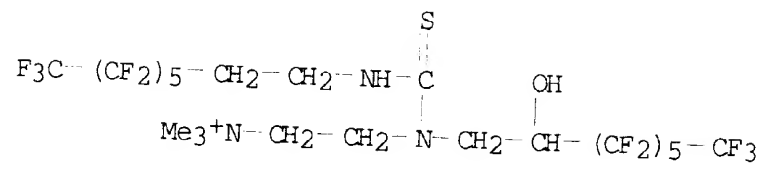
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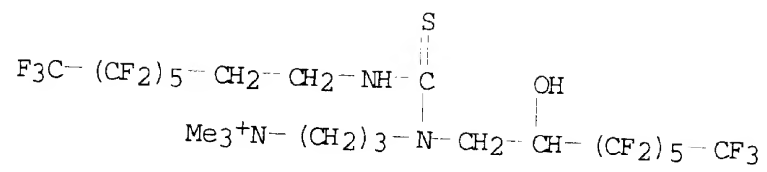
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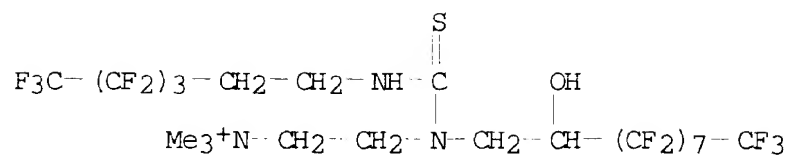
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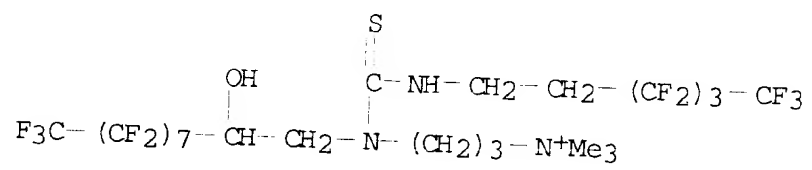
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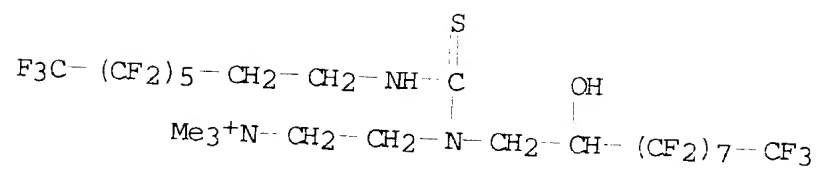
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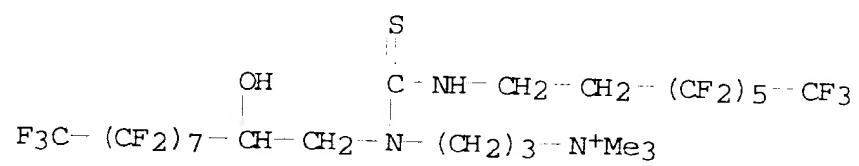
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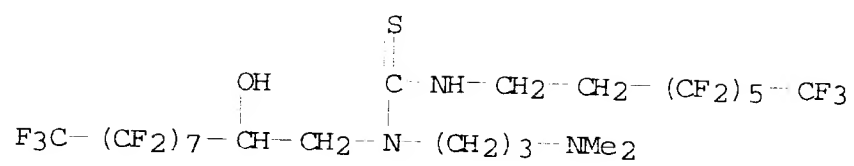
I -

Marker: 00000055

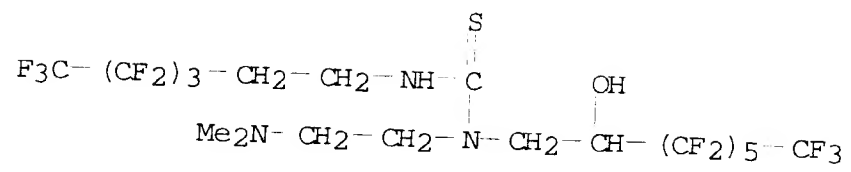


* I -

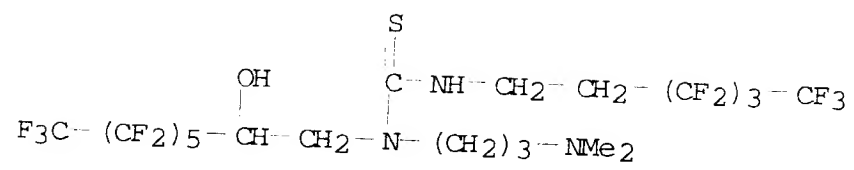
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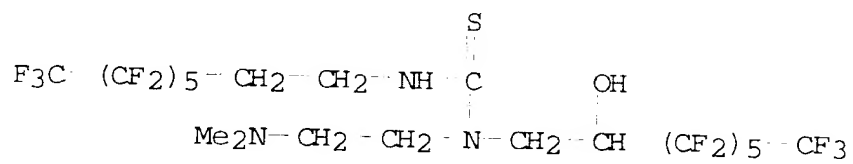
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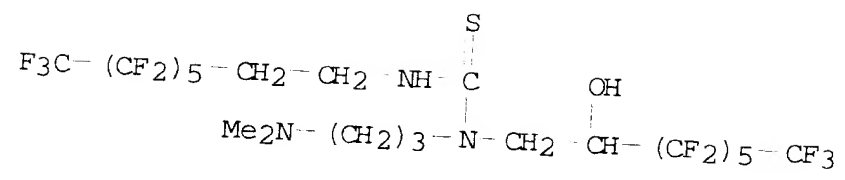
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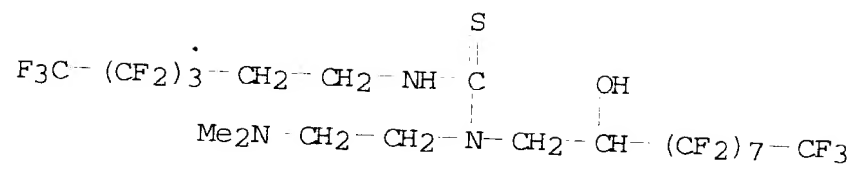
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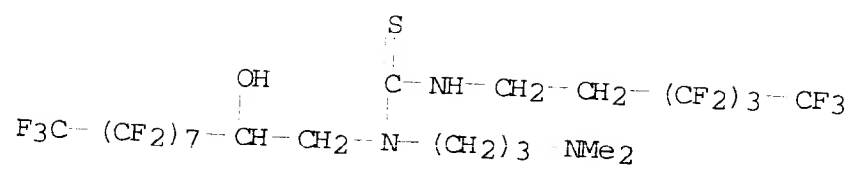
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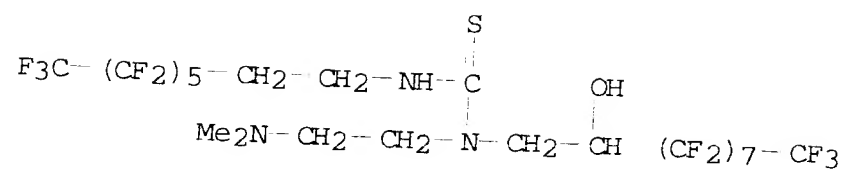
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Marker: 00000062



Marker: 00000063



Marker: 00000064